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CABI INTERNATIONAL

CABI INTERNATIONAL (CABI), formerly the Commonwealth Agricultural Bureaux, is a cooperative not-for-profit organization owned, administered and financed by member governments. It was established in 1928, currently has 29 members, and has the status and privileges of an international organization in the UK. A new treaty-level constitution, giving CABI the status of an Inter-Governmental Organization, is in the process of ratification.

CABI's organizational structure comprises the Review Conference of member governments, which meets every five years; the Executive Council, with one representative from each member government, which meets four times per year; and the Directorate, including CABI Headquarters and its 14 Institutes and Bureaux. The Director General is the chief executive, controlling the 375 staff, two thirds of whom are at managerial or professional level, through three Directors, for Information, Scientific and Administrative Services.

The organization exists to provide information, scientific and development services for agriculture and allied disciplines throughout the world.

INFORMATION SERVICES

The chief function of the Information Services is to provide ready access to published information on research in agriculture and allied disciplines, including rural development.

Over 100 scientists/linguists at CABI's Bureaux and Institutes scan the world literature, select the significant items, and prepare an informative abstract of each which is entered into the CAB ABSTRACTS database. With some 2 million records in the database since 1973, and 3 million more in printed journals back to 1930, the total archive provides a unique encyclopaedic resource of unsurpassed reliability and quality.

The CAB ABSTRACTS database is publicly accessible online from major international online vendors and from CABI. It is used to provide current awareness and retrospective information services in hard copy and machine-readable form. Chief among these are 46 printed abstract journals, which are taken by 10,000 subscribing organizations worldwide. New journals are started in response to changing users' needs or if sponsors guarantee the circulation. Users needing more specific information may select outputs that match their particular requirements, helped if necessary by CABI's subject experts; outputs are supplied as magnetic tape, computer printout, microfiche or floppy disk. The database is also available on optical disk (CD-ROM), a new technology ideally suited to developing countries. To complete the service, photocopies of original articles are provided on request through the CABI Library Services.

Text processing, database production and data retrieval are provided by CABI's in-house computer centre, which also offers these services to other organizations. The centre is already recognized as the focal point for online access to a portfolio of small bibliographic databases and databanks relevant to agriculture, medicine and development.

Other functions of the Information Services include compilation of specialized databanks and directories, publication of primary journals, authoritative reviews and books, and training in information transfer for librarians, documentalists and information specialists.

SCIENTIFIC SERVICES

The Scientific Services of CABI are provided by four Institutes. Three deal with the science of taxonomy and provide identification and related services; the fourth deals with biological control.

CAB International Institute of Entomology (CIE)

CIE provides an identification service for insects, mites and other arthropods, especially species that are of actual or potential important as pests, parasitoids, predators and pollinators or are otherwise relevant to agriculture, forestry or related subjects. Contract research is also undertaken in these fields. The Institute's taxonomists work in the British Museum (Natural History) where they have access to the Museum's 23 million reference specimens of insects and mites, an incomparable aid to authoritative identifications and research on arthropod classification.

CAB International Mycological Institute (CMI)

CMI is the largest centre for systematic mycology in the world and provides a service for the identification of filamentous fungi and plant-pathogenic bacteria. It has about 300,000 dried reference specimens, a culture collection of more than 12,500 isolates, an extensive library, a Biodeterioration and Industrial Services Laboratory, a Biochemical Laboratory, and a Plant Pathology Liaison Unit. The Institute provides a wide range of consultancy and contract services for plant pathologists and industry. It incorporates the UK National Collection of Fungus Cultures and the Biodeterioration Centre.

CAB International Institute of Parasitology (CIP)

CIP provides an identification service for plant-parasitic and entomophilic nematodes, and helminth parasites of animals and man. The reference collections contain over 65,000 specimens, and an extensive specialist library is maintained. The Tropical Plant Nematology Advisory and Research Unit provides practical advice on plant-parasitic nematodes and their control worldwide, and the Institute also houses the WHO Filarial Reference Collection.

CAB International Institute of Biological Control (CIBC)

CIBC provides information and advice on biological control, undertakes research and implementation of programmes on biological control of major pests and weeds, and participates in integrated pest management programmes in association with other agencies. It has its headquarters in the UK but operates also from stations at Delémont, Switzerland; Bangalore, India; Rawalpindi, Pakistan; Nairobi, Kenya; and Curepe, Trinidad, West Indies.

All four Institutes carry out research, and offer a wide range of training activities from postgraduate studentships to special training courses both in the UK and abroad.

DEVELOPMENT SERVICES

The Development Services provide a focus for CABI consulting activities.

The Development Services Group was established in 1986 to provide a sharper focus for CABI's consulting activities. It draws heavily on the unique scientific expertise and information resources available in the CABI Institutes and Bureaux, and its activities are backed by nearly sixty years of CABI involvement in science and world agriculture.

The Development Services offer practical advice and assistance on many pest-related or environmental problems in agriculture. Specific services include:

- project appraisal
- advice in a range of scientific disciplines
- research supervision
- research evaluation
- project implementation.

These services are offered in situations ranging from short-term individual consultancies to project components and major development projects. The current focus is on:

- integrated pest management programmes
- national crop protection services
- pest/disease identification and control
- crop-orientated pest and disease surveys.

One component of these activities that can be extended to any branch of agriculture or development is the provision of a comprehensive information service, involving expert review and analysis of all relevant literature.

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ABBREVIATIONS USED IN *PROTOZOOLOGICAL ABSTRACTS*

Authors Addresses

Acad	Academy
Agric	Agricultural, Agriculture, etc.
Agron	Agronomy
Ass	Association
Biol	Biology, Biological, etc.
Cent	Central
Coll	College
Dep	Department
Div	Division
Exp	Experimental, Experiment
Fed	Federal
Gov	Government
Inst	Institute
Lab	Laboratory

Med	Medical, Medicine, etc.
Parasit	Parasitology
Path	Pathology
Reg	Regional
Res	Research
Sch	School
Sci	Scientific
Soc	Society
Sta	Station
Tech	Technical
Trop	Tropical
Univ	University
Vet	Veterinary
Zool	Zoology, Zoological, etc.

Language Symbols

Af	Afrikaans
Al	Albanian
Ar	Arabic
Az	Azerbaijan(i)/Azerbaijani/ Azerbaijani
Be	Belorussian
Bg	Bulgarian
Ch	Chinese
Cr	Croat
Cs	Czech
Da	Danish
Nl	Dutch
En	English
Ee	Estonian
Fi	Finnish
Nl	Flemish
Fr	French
De	German
Gr	Greek
He	Hebrew
Hu	Hungarian
Is	Icelandic
In	Indonesian

It	Italian
Ja	Japanese
Ko	Korean
La	Latin
Lv	Latvian
Li	Lithuanian
Ma	Macedonian
My	Malay/Bahamas Malaysia
No	Norwegian
Pe	Persian
Pl	Polish
Pt	Portuguese
Ro	Romanian
Ru	Russian
Sr	Serbian
Sh	Serbo-Croat
Sk	Slovak
Sn	Slovene
Es	Spanish
Sv	Swedish
Ta	Tajik/Tadzhik
Tr	Turkish
Uk	Ukrainian

Taxonomic Abbreviations

n.sp.	new species
n.g.	new genus
n.comb.	new combination
syn.	synonym
sp.inq.	species inquirenda

nom.nov.	nomen novum
nom.nud.	nomen nudum
n.subsp.	new subspecies
n.ord.	new order
n.fam.	new family

General Abbreviations

The abbreviations used for the names of common units and chemical substances are in accordance with British Standard 1991: 1967. The following additional abbreviations are also used:

ACTH	adrenocorticotrophic hormone
ADP	adenosine diphosphate
a.i.	active ingredient
a.m.	morning
ATP	adenosine triphosphate
CFT	complement fixation test
CHR	cercarial hüllenreaktion test
CNS	central nervous system
CSF	cerebro-spinal fluid
cv.	cultivar
DASS	defined antigen substrate spheres
DNA	deoxyribonucleic acid
e.g.	for example
ELIEDA	enzyme-linked immunoelectrodiffusion assay
ELISA	enzyme-linked immunosorbent assay
e.p.g.	eggs per gram
ES	excretory/secretory
F	filial generation
FAO	Food & Agricultural Organization
FAT	fluorescent antibody test
Hb	haemoglobin
HAI	indirect haemagglutination test
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Hm/B	Helminthological Abstracts, Series B, Plant Nematology
i.e.	that is
IEP	immunoelectrophoresis
Ig	immunoglobulin

i.p.	intraperitoneal
IU	international unit
i.v.	intravenous
L1-4	larval stage 1-4
LFT	latex flocculation test
mf	microfilaria
MIT	macrophage inhibition test
M(sm.cap.)	molar
P	parental generation
p.m.	afternoon
PCA	passive cutaneous anaphylaxis
PCV	packed cell volume
p.p.m.	parts per million
Pz	Protozoological Abstracts
RAST	radio allergosorbent test
RBC	red blood cell
resp.	respectively
RH	relative humidity
RNA	ribonucleic acid
USDA	United States Department of Agriculture
UV	ultra violet
var.	variety
v/v	volume/volume
WBC	white blood cell
WHO	World Health Organization
wt.	weight
w/v	weight/volume
w/w	weight/weight
yr	year

READER'S GUIDE

Protozoological Abstracts provides a monthly summary of the recent world literature on all aspects of work on parasitic protozoa (Sarcostigophora, Apicomplexa, Microspora, Ascetospora, Myxozoa, Ciliophora) including taxonomy and nomenclature, morphology and ultrastructure, evolution and genetics, biochemistry, physiology and behaviour, life-history, and the pathology, immunology, epidemiology and control of the infections they cause.

Coverage also includes the literature on potentially pathogenic free-living amoebae and on *Pneumocystis*. Areas of interest to parasitologists outside or peripheral to the scope of *Protozoological Abstracts*, such as the biology and control of insect vectors, disease caused by helminths or diseases due to bacterial or mycotic infection, are fully covered by other CAB abstract journals, respectively, *Review of Applied Entomology Series B – Medical and Veterinary*, *Helminthological Abstracts, Series A*, *Animal and Human Helminthology*, *Veterinary Bulletin* and *Review of Medical and Veterinary Mycology*.

The abstracts enable readers to keep themselves informed of the progress of current work and allow them to decide whether or not they need to see the original document.

Photocopies of most of the papers abstracted are obtainable through the Library of the Commonwealth Institute of Parasitology, but to satisfy copyright regulations enquirers are urged to use a copy of the copyright form printed in the front of each issue of *Protozoological Abstracts*.

Over 2000 serial publications as well as books, reports and theses are regularly examined for relevant material, principally research findings and reviews. Some background papers may be abstracted briefly and others of local or marginal interest are referred to by title only. Authors' summaries are used whenever they are considered suitable. A special effort is made to provide informative abstracts of papers in the less commonly used languages and from less easily obtained journals.

When consulting an entry the reader should remember that the title is an integral part of the abstract and may include information necessary for its full comprehension.

In a typical entry the name(s) of the author(s) are followed by the title of the paper in English. If the paper is written in a language other than English, the English translation of the title is enclosed in square brackets. The title in the original language, if not English, follows, except for Arabic, Chinese, Japanese etc. Cyrillic characters are transliterated for the titles of books but not for the titles of papers. Journal titles are next given in unabbreviated form. The year of issue, in round brackets, the volume number, part number in round brackets, and first and last page numbers of the article complete the basic citation.

Supplementary details given in square brackets include the language of the paper (a two-letter abbreviation with an initial capital) and the language of any summary or summaries in languages other than that of the paper (a similar abbreviation without an initial capital); the number of references, plates, figures, graphs, maps, tables may also be included. The address of the first author is usually given in abbreviated form. Some commonly used abbreviations are listed in this issue.

Conference papers, whether published in book form or as proceedings, appear either as a single general abstract under the classification "Conferences" or as a number of abstracts under appropriate classifications with a single general entry under "Conferences". Conference abstracts are not abstracted.

Every effort is made to achieve consistency in the nomenclature of protozoa used in *Protozoological Abstracts*. Preferred names, as defined by the International Commission for Zoological Nomenclature are used in the abstracts, sometimes introduced by square brackets, and also in the subject index. Hosts are usually given as in the original paper although an effort is made to use the Latin name, if it is known, in preference to the common name. Only the well known domestic and laboratory animals are referred to by their common names.

Antiprotozoal drugs and other medication used for, or associated with, the treatment of protozoal diseases are usually given in the abstract in the same form as in the original paper, but the preferred form will be used in the subject index.

Within *Protozoological Abstracts* the abstracts are arranged under Classifications that reflect the main emphasis of the work. When more than one aspect is covered in a paper there may be a cross reference between Classifications but the abstract will appear only once. However, the Classification "Taxonomy and Nomenclature" has highest priority so that abstracts containing descriptions of new taxa will appear in this section even if the main part of the work may be appropriate to some other Classification. The Classification must be seen as a rough guide only and reference should be made to the subject index for more specific searching.

The subject index is a parasite-orientated index, so that entries are under parasite and host rather than disease. Thus all papers on malaria will be indexed under the name of the relevant *Plasmodium* species (see notes for Subject Index for additional information).

Access to most of the papers abstracted in *Protozoological Abstracts* is available within the Institute with the aid of cumulative indices, and, along with extensive library holdings of journals, books and reprints, these represent one of the world's most significant collections of information on parasitology. Readers are encouraged to write to the Institute if they have any problems with the protozoological literature or to visit the library themselves to carry out bibliographical research.

On-line facilities are also available for searching all abstracts published in *Protozoological Abstracts* and for those published in other CAB journals since 1973. From time to time, review articles by authoritative authors are published in *Protozoological Abstracts* and staff of the Institute provide Annotated Bibliographies and other publications in protozoology.

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C·A·B International Institute of Parasitology (CIP) has been serving parasitologists throughout the world since 1929. Although originally set up as a part of the CAB information service it later expanded to encompass taxonomic and identification services. The Institute is constantly looking at new ways to develop its services and has recently expanded to include a tropical plant nematology advisory and research unit.

The services provided by CIP are unique and are available to parasitologists throughout the world. They include:

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PROTOZOOLOGICAL ABSTRACTS	ISSN 0309-1287

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The Institute houses extensive reference collections of both plant-parasitic nematodes and helminths, the latter including the WHO Filarial Reference Collection and personal collections of several eminent helminthologists.

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Six-week intensive international training courses on animal helminth parasites and plant-parasitic nematodes are held in alternate years.

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CIP specialists are available for short-term consultancy work to investigate helminth problems anywhere in the world where their expertise may help. The Institute will also undertake funded contract research or investigative work on a short-term or extended basis.

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This unit was established to complement the identification work of the Institute by giving advice on the economic importance of plant nematodes and on practical control measures.

WHO ONCHOCERCIASIS UNIT

This unit was established in 1984 as part of the WHO Onchocerciasis Chemotherapy Project to investigate the possibilities in *in vitro* culture of *Onchocerca* (the cause of River Blindness in Africa) with a view to the eventual production of an *in vitro* screening technique for drugs active against *Onchocerca*.

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AUTHOR INDEX

The reference is to the serial number of the citation. No distinction is made between abstract and title-only entries and there are no cross-references to show joint authorship. Thus a paper by "Brown, B.; Jones, A.; Smith, J." would have three separate entries: "Brown, B", "Jones, A.", and "Smith, J.". There is no distinction between subsidiary and senior authors. Apparent inconsistencies may appear in the spelling of authors' names; this is because variations in spelling occur in primary journals. Authors' names in this index are spelt as they appeared in the original paper. If we have knowledge of their identity, alternative versions may also be given.

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SUBJECT INDEX

Beginning with Volume 7 the structure of the subject index of this journal changed slightly. This was partly due to the development of the *CAB Thesaurus* and partly to the need to conform to a standard index structure common to all CAB International journals. Most leading terms therefore conform to the preferred terms as listed in the *CAB Thesaurus* [copies are obtainable from CAB International (Central Sales), Farnham House, Farnham Royal, Slough, SL2 3BN, UK].

The reference is to the serial number of the citation. No distinction is made between abstract and title-only entries. The leading key word unit in an entry appears in **bold type**. Aggregation of entries sharing identical keyword units is indicated by indentation. Basically there are four levels of indentation – parasite, host, country, subject aspect.

Hosts are indexed under their specific names, where given, except domesticated animals (e.g. cats, pigs, sheep) and where numerous hosts of the same group are listed in the one paper (e.g. Amphibia, birds). The use of alternative scientific names for host or parasite is avoided wherever possible but in cases in which nomenclatorial or taxonomic confusion still exists the same organism may appear under more than one name.

In an index of this kind it is not possible to assume that any chosen entry will necessarily give complete coverage of the subject in question. After consulting the chosen entry it may be necessary to consult index entries for related larger or smaller groupings or for alternative names.

Thus, when the subject matter concerns organisms, whether host or parasite, entries concerned with related group, generic or popular names should be consulted, e.g.

Rodents, see also Animals, Mammals, Muridae, *Rattus*, Vertebrates, etc.
Eimeria, see also Coccidia

A similar procedure is necessary with geographical entries, e.g.

East Africa, see also Africa, Kenya, Tanzania, Uganda

New records are identified by “new host record” for the first record of the named parasite in the named host and by “new geographic record” for the first record of the named parasite in the named country or region.

Antiprotozoal drugs are indexed by their common name (where known), their trade name, protocol number, or by their chemical name. Wherever possible proprietary drugs are cross-referenced to the appropriate common name. No classification of the drugs is attempted.

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